

APPLICANT(S): LEWKOWICZ, Shlomo et al.
SERIAL NO.: 10/536,982
FILED: May 31, 2005
Page 2

RECEIVED
CENTRAL FAX CENTER

OCT 15 2007

AMENDMENTS TO THE CLAIMS

Please amend claim 88 as follows.

The following listing of claims replaces all versions, and listings, of claims in this application.

Listing of Claims:

1-72. (Canceled)

73. (Previously Presented) The method according to claim 88 comprising imaging the interaction chamber with an optical system.

74. (Previously Presented) The method according to claim 88 comprising imaging the optical changes in the interaction chamber.

75. (Previously Presented) The method according to claim 88 comprising illuminating said interaction chamber wherein at least a portion of the interaction chamber is transparent in a wavelength of illumination.

76. (Previously Presented) The method according to claim 88, comprising transmitting images to an external receiver.

77. (Previously Presented) The method according to claim 88, comprising pumping the endo-luminal sample into the interaction chamber.

78. (Withdrawn) An in-vivo imaging device for determining an in vivo condition, the imaging device comprising:

an interaction chamber comprising first and second openings, wherein the first opening is to allow an endo-luminal sample to enter and the second opening is to discharge the endo-luminal sample;

an imager for capturing an image of at least the interaction chamber, wherein the interaction chamber and the imager are positioned behind an optical window.

79. (Withdrawn) The in-vivo imaging device according to claim 78 wherein the interaction chamber includes a capillary.

APPLICANT(S): LEWKOWICZ, Shlomo et al.
SERIAL NO.: 10/536,982
FILED: May 31, 2005
Page 3

80. (Withdrawn) The in-vivo imaging device according to claim 78 wherein the interaction chamber is etched into a slab of glass.

81. (Withdrawn) The in-vivo imaging device according to claim 78 wherein the interaction chamber includes an indicator configured to react with the endo-luminal sample.

82. (Withdrawn) The in-vivo imaging device according to claim 81, comprising first and second membranes configured to restrict the indicator to the interaction chamber.

83. (Withdrawn) The in-vivo imaging device according to claim 78, comprising first and second membranes configured to selectively enable passage of the endo-luminal sample.

84. (Withdrawn) The in-vivo imaging device according to claim 78, comprising an optical system.

85. (Withdrawn) The in-vivo imaging device according to claim 78 comprising a transmitter to transmit the captured image to an external receiving system.

86. (Withdrawn) The in-vivo imaging device according to claim 78, wherein the imager is configured for capturing an image of the interaction chamber and a gastrointestinal tract wall.

87. (Withdrawn) The in-vivo imaging device according to claim 78 comprising an illumination source configured to illuminate the interaction chamber.

88. (Currently Amended) A method for determining body lumen conditions in-vivo, the method comprising:

allowing a first endo-luminal sample to enter through a first opening of an in-vivo interaction chamber, ~~a first endo-luminal sample~~, the interaction chamber ~~including~~ having immobilized therein an indicator configured to react with at least the first endo-luminal sample, said reaction occurring within the interaction chamber, and the reaction resulting in an optical change;

detecting the optical change;

discharging the first endo-luminal sample through a second opening of the interaction chamber; and

replacing the first sample in the interaction chamber with a new sample.

APPLICANT(S): LEWKOWICZ, Shlomo et al.
SERIAL NO.: 10/536,982
FILED: May 31, 2005
Page 4

89. (Previously Presented) The method according to claim 88 comprising capturing an image of a gastrointestinal wall.